Installation Instructions: New A8 Cassette Interface BOARD
Part Number: SP9403701

Due to parts that have become obsolete, the A8 BOARD has been redesigned for use in the following equipment:

Kodak X-Omat MULTILOADER 300
Kodak X-Omat MULTILOADER 300 PLUS
Kodak X-Omat MULTILOADER 7000
Kodak MINILOADER 2000
Kodak MINILOADER 2000P

* Mounting of the new A8 BOARD is identical to the old style.
* The A3 BOARD is integrated in the new A8 BOARD.
*The new A8 BOARD has firmware installed and can be configured for use with Multiloaders 300/300PLUS, Multiloader 7000, Miniloaders 2000/2000P.

Important: If a MULTILOADER 300 has operation and bootstrap software that is less than V4.0 installed, it must be upgraded during the installation of the new A8 BOARD.
Mod 52: Part Number 9229220

Multiloader/Miniloader: Must have the following minimum version Operation Software.

XML7000 V1.21	Floppy PN: SP9409351	CD PN: --
ML2000/P V2.41	Floppy PN: H9312416	CD PN: 1F2436
XML300Plus V5.22	Floppy PN: H9212526	CD PN: --
XML300 V4.10	Floppy PN: H9214106	CD PN: --

Software: Other sources to obtain and download Multiloader/Miniloader software.
For FE's in EPMAR: Lotus Notes Database, HIS EPMAR Prof Serv on Great Britain.
For US Distributors: Web site www.kodak.com/go/hidistrib (see your service manager for a password)

Install the new A8 BOARD as follows:

1. Note the current Operation Software installed in the Multiloader/Miniloader.
2. De-energize the equipment.
3. Remove: COVERS AND PANELS
4. Disconnect from existing A8 BOARD: CABLES AND CONNECTORS
5. Remove and discard old A3 + A8 BOARDS.
6. Install new A8 BOARD using existing hardware.
7. Connect to new A8 BOARD: CABLES AND CONNECTORS

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8. Set the S3 DIP SWITCHES on the new A8 BOARD as follows:

Multiloader Type	S3-1	S3-2	S3-3	S3-4
XML7000	**ON**	**ON**	**ON**	**N.A.**
ML2000/2000P	**OFF**	**ON**	**ON**	**N.A.**
XML300	**ON**	**OFF**	**ON**	**N.A.**
XML300 Plus	**OFF**	**OFF**	**ON**	**N.A.**

9. Set DIP SWITCH S2-3 – OFF (Not Used)
   Set DIP SWITCH S2-4—OFF (Not Used)
   Set DIP SWITCH S2-1: Same setting as DIP SWITCH 1 of old A8 BOARD
   Set DIP SWITCH S2-2: Same setting of DIP SWITCH 2 of old A8 BOARD

10. **For XML7000/(ML2000P SN >6752): Set Jumpers for B20/CPUVO**
    (B20 with no mirror)
    A8X2 to 2-3
    A8X3 to 2-3
    A8X50 (Not Used)
    A8X52 (Not Used)

11. **For B20 with Mirror, XML300/300Plus/ML2000/(ML2000P SN 6752 and below): Set Jumpers**
    A8X2 to 1-2
    A8X3 to 1-2
    A8X50-2 to A8X52-2

12. **ML2000P B9/CPI sensor adjustment: test points P1, P21 GNDPE**
    With no film in processor interface adjust R100 to <500mV.
    With fresh film blocking B9 sensor voltage should be >3.5VDC. If value cannot be reached, remove film from B9 sensor and readjust R100 closer to 500mV. Install: COVERS and PANELS

13. Energize: MULTILOADER/MINILOADER

14. Using LAPTOP COMPUTER download Operating Software noted on Step 1, Page 1 to the new A8 BOARD. If software version is being upgraded download new version of Operation Software.

15. Check MULTILOADER/MINILOADER for correct operation.

NOTE: When installing new A8 BOARD to a XML300/300 PLUS, MINILOADER 2000/2000P new test points and circuit board diagram must be used for service.

P1 (green)	R100 Adj sensor input B22/CT2L
P2 (green)	sensor input B17/CPUEF
P3 (green)	sensor input B18/CPUER
P4 (green)	R101 Adj sensor input B22/CT2R
P5 (green)	sensor input B20/CPUVO
P6 (red)	VµP
P7 (red)	VCC (+5 Vdc) micro process voltage
P8 (green)	_RESET
P9 (red)	Vpe10 (+10 Vdc) Unreg
P10 (red)	Vpe30 (+30 Vdc) Unreg
P11 (red)	Vpe31 (+24 Vdc) Reg
P12 (green)	FPGA PA0
P13 (red)	Vpe11 (+5 Vdc) Reg
P14 (green)	R70 ADUST
P21 (black square)	GNDpe peripheral ground
P22 (black)	GNDuP micro controller voltage ground

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CASSETTE INTERFACE BOARD A8